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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/824,092	10/824,092 04/14/2004 Ajay Kumar		5681-72300	6152	
35690 75 MEYERTONS I	90 03/01/2007 HOOD, KIVLIN, KOV	EXAMINER			
700 LAVACA, S	UITE 800	NGUYEN, CINDY			
AUSTIN, TX 787	701	ART UNIT	PAPER NUMBER		
			2161		
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SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONT	THS	03/01/2007	PAPER		

## Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary    Examiner			A	Application No.		Applicant(s)				
Cindy Nguyen   2161	Office Action Summary			10/824,092		KUMAR, AJAY				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extension for many be evaluable under the provision of 37 CFT 1.35(a), in a ovent, however, may a reply to timely find the communication of 37 CFT 1.35(a). In a ovent, however, may a reply to timely find 11 NO period for reply is specified above, the maximum stability period will apply and will expire SIX (8) MONTHS from the maling date of this communication.  Failur to reply within the set or extended period for reply will by statuke, cause the application to become ABANDOED (30 U.S.C. § 133). Any reply received by the Clifical later than it new motification (\$\frac{1}{2}\) the communication, even if simely filed, may reduce any centre guestie than adjustment. 38 at 7 CFR 1.764(b).  Status  1)  Responsive to communication(\$\frac{1}{2}\) filed on \$\frac{0.104/07}{2}\).  2a)  This action is FINAL. 2b)  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under \$Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(\$\frac{1}{2}\) is/are pending in the application.  4a) Of the above claim(\$\frac{1}{2}\) is/are allowed.  5)  Claim(\$\frac{1}{2}\] is/are allowed.  6)  Claim(\$\frac{1}{2}\] is/are allowed.  6)  Claim(\$\frac{1}{2}\] is/are allowed.  7)  Claim(\$\frac{1}{2}\] are subject to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(\$\frac{1}{2}\] filed on  is/are: a) cacepted or b) objected to by the Examiner.  Application Papers  9)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some *C  None of: None			E	Examiner		Art Unit				
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2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date	Attachment(s)									
2) Fillionnation disclosure Statements) (PTO/SB/08)			PTO-948)	_						
Paper No(s)/Mail Date 6) Other:										

Art Unit: 2161

#### **DETAILED ACTION**

This is in response amendment filed 01/04/07.

### Response to Arguments

Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 28-39 recites the limitation "the computer-accessible medium" in claim 27.

There is insufficient antecedent basis for this limitation in the claim.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Art Unit: 2161

Claims 1, 3-5, 7, 9, 10, 14, 16-18, 20, 22, 23, 27, 29-31, 33, 35 and 36 are rejected under 35 U.S.C. 102(e) as being anticipated by anticipated by Leong et al. (US 20030182292) hereafter (Leong).

Regarding claims 1, 14 and 27, Leong discloses: a system, a method and a computer-accessible storage medium, comprising: a processor, (2, fig. 2, Leong); and

Memory (20, fig. 2, Leong) coupled to the processor and configured to store program instructions executable by the processor to implement a class structure based data object enhancer configured to (paragraph 0029, Leong):

input one or more classes (paragraphs 0030, Leong);

analyze the structure of the one or more classes to determine a persistence structure for data of the one or more classes to be persisted (0032, 0036, Leong); and

generate one or more enhanced classes corresponding to the one or more classes such that the one or more classes are enhanced to persist the data to be persisted according to the persistence structure (0032, 0035-0038, Leong).

Regarding claims 3, 16, 29, all the limitations of this claim have been noted in the rejection of claims 1, 14 and 27 above. In addition, Leong discloses: wherein to analyze the structure of the classes, the class structure based enhancer is configured to parse bytecode of the one or more classes to determine class and field attributes (0043, Leong).

Regarding claims 4, 17 and 30, all the limitations of this claim have been noted in the rejection of claims 1, 14 and 27 above. In addition, Leong discloses: wherein the class structure based enhancer is further configured to generate metadata that includes the results of the analysis of the structure of the one or more classes (0026-0028, Leong).

Regarding claims 5, 18, 31, all the limitations of this claim have been noted in the rejection of claims 4, 17 and 30 above. In addition, Leong discloses: wherein the generated metadata is output explicitly as a metadata file (0032-0036, Leong).

Regarding claims 7, 20 and 33, all the limitations of this claim have been noted in the rejection of claims 1, 14 and 27 above. In addition, Leong discloses: wherein the persistence structure corresponds to the structure of the one or more classes (0031, Leong).

Regarding claims 9, 22 and 35, all the limitations of this claim have been noted in the rejection of claims 1, 14 and 27 above. In addition, Leong/ Vachuska discloses wherein to determine a persistence structure for the data of the one or more classes the class structure based enhancer is configured to apply one or more rules to the results of Java reflection calls to or byte code parsing of the one or more input classes (0037-0039, Leong).

Regarding claims 10, 23, 36, all the limitations of this claim have been noted in the rejection of claims 1, 14 and 27 above. In addition, Leong discloses wherein the rules applied by the class structure based enhancer include persisting class fields that are not static or transient (0037, 0038, Leong).

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 2, 6, 8, 11, 13, 15,, 19, 21, 22, 25- 26, 28, 32, and 34, 37-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leong et al. (US 20030182292) (hereafter Leong) in view of Vachuska et al. (US 20040044687).

Regarding claims 2, 15 and 28, all the limitations of this claim have been noted in the rejection of claims 1, 14 and 27 above. However, Leong didn't disclose: wherein to analyze the structure of the classes, the class structure based enhancer is configured to make one or more Java reflection calls to the one or more classes. On the other hand, Vachuska discloses: wherein to analyze the structure of the classes, the class structure based enhancer is configured to make one or more Java reflection calls to the input classes (0024, Vachuska). Thus, at the time invention was made, it would have been obvious to a person of ordinary skill in the art to include wherein to analyze the structure of the classes, the class structure based enhancer is configured to make one or more Java reflection calls to the one or more classes in the system of Leong as taught by Vachuska. The motivation being to provides classes and interfaces for obtaining reflective information about class and objects.

Regarding claims 6, 19 and 32, all the limitations of this claim have been noted in the rejection of claims 5, 18, 31above. In addition, Leong/Vachuska discloses: wherein the metadata file is an extensible markup language (XML) file (0046, Vachuska). Thus, at the time invention was made, it would have been obvious to a person of ordinary skill in the art to include wherein to analyze the structure of the classes, the class structure based enhancer is configured to make one or more Java reflection calls to the input classes in the system of Leong as taught by Vachuska. The motivation being

to translate the java program source code into java bytecodes, which are instructions for a virtual computer, called the java virtual machine and class files may store in memory.

Regarding claims 8, 21, 34, all the limitations of this claim have been noted in the rejection of claims 1, 14 and 27 above. In addition, Leong/ Vachuska discloses wherein the persistence structure maps the data to be persisted to a single table in a database (0026, Vachuska).

Regarding claims 11, 24, 37, all the limitations of this claim have been noted in the rejection of claims 1, 14 and 27 above. In addition, Leong/ Vachuska discloses wherein the rules applied by the class structure based enhancer include storing persistent fields of a given class in a table corresponding to that class in a database (0044, Vachuska).

Regarding claims 12, 25 and 38, all the limitations of this claim have been noted in the rejection of claims 1, 14 and 27 above. In addition, Leong/Chan discloses: wherein the one or more classes are comprised in a Java Archive (JAR) file (col. 5, lines 29-42, Chan). Thus, at the time invention was made, it would have been obvious to a person of ordinary skill in the art to include wherein the one or more classes are comprised in a Java Archive (JAR) file in the system of Leong as taught by Chan. The motivation being to creating jar files, flexibility in use and design of such programs would be enhanced if the entry name of a class file and other file to be placed in jar archive could be assigned a name that is independent of wherein the file is physically located on a file system.

Regarding claims 13, 26, 39, all the limitations of this claim have been noted in the rejection of claims 1, 14 and 27 above. In addition, Leong/ Vachuska discloses, wherein the class structure based

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enhancer is further configured to output the enhanced one or more classes and a database schema for storing the data to be persisted in a persistent data store (0044-0046, Vachuska). Thus, at the time invention was made, it would have been obvious to a person of ordinary skill in the art to include wherein the class structure based enhancer is further configured to output the enhanced one or more classes and a database schema for storing the data to be persisted in a persistent data store in the system of Leong as taught by Chan. The motivation being to enable the system performs the tasks of storing and retrieving objects from the database (0046, Vachuska).

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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#### Contact information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cindy Nguyen whose telephone number is 571-272-4025. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Apu **A**. Mofiz can be reached on 571-272-4080. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Cindy Nguyen